

EMERGENCY SERVICES DIVISION

PROCEDURE

BROOKHAVEN NATIONAL LABORATORY

Procedure No. FR-BIP-2.0.8

Revision No. 3

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FIRE/SMOKE DOOR INSPECTIONS

1.0 PURPOSE/SCOPE

To ensure that fire doors in the building are operable, the Fire/Rescue Building Inspector is to inspect fire doors as part of the regular building inspection. The frequency of the inspection is to coincide with the building inspection. This Standard Operating Procedure (SOP) outlines the fire door inspection procedure.

Exceptions:

- a) Doors with a blue "Not a required fire door" label are exempt for the non-compliant design characteristic.
- b) Doors with a red "Substandard fire door" label are not included within the scope of this procedure.
- c) Exclude "C" label fire door and lower (i.e. 45 minutes or less, wire glass of >100 sq. inches) which are not smoke doors.

2.0 RESPONSIBILITIES

The Fire/Rescue Group Building Inspectors are responsible for inspecting fire doors, as one element of the building inspection, as outlined in this procedure. The Fire/Rescue Group Training Officer is responsible for ensuring that the Building Inspector is familiar with and understands this procedure.

3.0 DEFINITIONS

A fire door is a specifically identified door intended to limit the spread of fire and/or smoke. A fire door assembly includes the door leafs, frame, hardware, and closer. Normally a fire door has a UL, Hershey Warnock, or FM label. However, at BNL there may be fire doors without labels. If these are required fire doors, they are marked "substandard." This indicates a design deficiency. All normal aspects should be satisfactory (closure, clear swing, lathing). Likewise, there may be UL/FM labeled doors which do not serve as fire doors. These are marked with blue "not a required fire door" labels. When in doubt, the Building Inspector should contact his supervisor.

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4.0 PREREQUISITES

Building Inspectors must have completed a Basic Firefighter Probationary Program at BNL, which include fire/smoke door inspections.

5.0 PRECAUTIONS

Lifting count weights on sliding doors may cause heavy doors to slam shut.

6.0 PROCEDURE

- 6.1 Check that the door is not blocked or wedged open.
- 6.2 Check that the fusible link (if present) is in place and not painted. On smoke detector released doors, check that the detector is powered (light on or blinking) and that the vents are free of dust and dirt.
- 6.3 Check that the door is free to close - no equipment or other material is blocking the door. The fire door must latch when gently released from the open position (see 6.7).
- 6.4 Inspect hinges, catches, latches, and stay rolls for wear. Inspect cables or chain on suspended doors for excessive wear, kinks and inoperative conditions.
- 6.5 Check the condition of the door. Is covering corroded, torn, or battered? No open holes? Is there evidence of dry-rot (tin-clad doors)? Edges caving in and screws pulling out may indicate dry-rot. Tapping door with hammer may provide some indication of the extent of rot damage.
- 6.6 Inspect adjoining fire walls/barriers for penetrations, damage, and integrity.
- 6.7 If possible, perform operating test (remove fusible link, lift weight, etc.). On smoke released doors with local smoke detectors, use the test button to release the door.
- 6.8 If 6.7 above is not possible, operate door manually to make sure it operates smoothly.
- 6.9 Check adjustment of chains of cables of bi-parting counterbalanced doors to insure proper latching, and to keep the doors in proper relation to the door opening.
- 6.10 Any deviation from normal operation is considered a failure. Document failure as in Section 9.

7.0 REFERENCES

NFPA-80 - 1995, "Fire Doors and Windows", Chapter 15, Care and Maintenance.

8.0 ATTACHMENT

Fire Door Inspection Sticker BNLF2834 - Blue "Not A Required Fire Door" Sticker, Red "Substandard Fire Door" Sticker.

9.0 DOCUMENTATION

- 9.1 Record inspection on Inspection Sticker and prepare an Inspection Memorandum if deficiencies are found. Record fire door

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Component Number (found on Inspection Sticker) in Comp ID number section on Inspection Memorandum Form. Fire door number should be coordinated with plant engineering material management number method for fire doors. Inspection Memorandum forms are completed and sent to Plant Engineering.

9.2 Inspection Sticker (see sample)

X = Not in satisfactory condition (prepare Inspection Memorandum)

OK = Satisfactory condition

XOK = Found unsatisfactory, but left in satisfactory condition (example: obstructions, etc., which were removed by the B.I.; prepare Inspection Memorandum - Indicate condition was corrected).

9.2.2 There are 12 positions on the inspection sticker, which means that a new sticker must be attached periodically. In order that the previous inspection record is not obliterated, place the new label either above or below the previous year's label, so that the previous year's label is visible. No more than 2 labels should be visible on the door.

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FIRE DOOR INSPECTION LABEL

“NOT A REQUIRED FIRE DOOR”

BLUE

“SUBSTANDARD FIRE DOOR”

RED

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FIRE DOOR INSPECTION FORM